

The Impact of Climate Changes on Primary Producer of Aquatic Ecosystem (Phytoplankton) in the Ocean

Title	The Impact of Climate Changes on Primary Producer of Aquatic Ecosystem (Phytoplankton) in the Ocean
Author Order	2 of 3
Accreditation	
Abstract	<p>Aquatic ecosystems are very important for biodiversity and play a crucial role for the environment as well as for humans. Phytoplankton, the primary producers in this system, significantly contribute to oxygen production and CO₂ absorption, making them crucial for global climate regulation. However, climate change marked by rising temperatures and unpredictable weather patterns has negatively impacted the abundance and distribution of phytoplankton, thereby threatening marine biodiversity and the stability of ecosystems. This study focuses on analyzing the impact of climate change on the abundance of phytoplankton in the oceans and identifying strategies to address it, through literature review. The research results indicate a significant decline in phytoplankton abundance, influenced by significant temperature changes from year to year. Effective mitigation strategies, including efforts to reduce greenhouse gases, protect biodiversity, and educate the public, are essential for preserving aquatic ecosystems. This research emphasizes the need for immediate and sustained action to protect marine biodiversity and ensure ecological balance.</p>
Publisher Name	Fakultas Perikanan dan Ilmu Kelautan
Publish Date	2024-12-31
Publish Year	2024
Doi	DOI: 10.20884/1.maiyah.2024.3.4.13948
Citation	
Source	MAIYAH
Source Issue	Vol 3 No 4 (2024): Maiyah : Vol. 3 No. 4 Desember 2024
Source Page	298-304
Url	https://jos.unsoed.ac.id/index.php/maiyah/article/view/13948/6240
Author	Dr DYHRURI SANJAYASARI, M.Si